Net Shape Rapid Manufacturing Using Nano Encapsulated Powders, Phase I



Completed Technology Project (2005 - 2006)

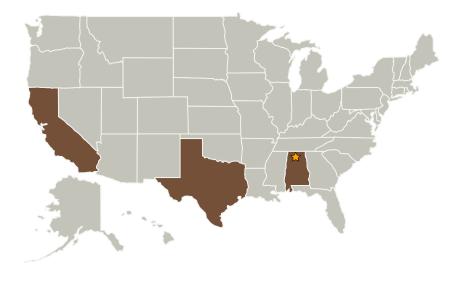
Project Introduction

The objective of this STTR is to determine the capability of Net Shape LENS processing with Nano-coated powders. The unique composites produced using regualr processing and these powders also provided unique material properties. The use of nano-coated powders with the rapid prototype LENS process should also provide unique data.

Anticipated Benefits

Coomercial appliations include automotive, aerospace, thermal control areas, electronics to name a few.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
★Marshall Space Flight Center(MSFC)	Lead	NASA	Huntsville,
	Organization	Center	Alabama
Advanced Powder	Supporting	Industry	Cypress,
Solutions	Organization		Texas
University of California-	Supporting	Academia	Davis,
Davis(UC Davis)	Organization		California



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Marshall Space Flight Center (MSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer



Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations		
Alabama	California	
Texas		

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Project Manager:

Curtis W Manning

Principal Investigator:

Dean M Baker

Technology Areas

Primary:

 TX12 Materials, Structures, Mechanical Systems, and Manufacturing

 TX12.4 Manufacturing
 TX12.4.1
 Manufacturing
 Processes

